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The following magnitudes have been assigned to the variables:—

| | A | B |
|---|---|---|
| 1901, November 7 | 14½ | 16¾ |
| 1902, August 27 | 16¼ | 15¾ |
| September 1 | 16½ | 15½ |

So far as I am aware, no variable stars have heretofore been found in the nebulæ.

N. G. C. 7023 is an especially interesting nebula from its suggestive location in a region comparatively devoid of stars. The nebula is about 15′ across, and consists of irregular streamers and masses of nebulosity folded about a 7th-magnitude star.

Mr. JOEL STEBBINS and Mr. R. H. CURTISS, Fellows in Astronomy at the Lick Observatory, gave efficient assistance in the taking of the photographs. C. D. PERRINE.

MT. HAMILTON, CALIFORNIA, 1902, September 5.

## ASTRONOMICAL TELEGRAMS.

*(Translations.)*

LICK OBSERVATORY, MT. HAMILTON, CAL.,
Sept. 1, 1902.

To Harvard College Observatory: (Sent 11:50 A. M.)

A comet was discovered by PERRINE on Sept. 1.0103 G. M. T.; in R. A. $3^h\ 17^m\ 49^s.4$; Decl. $+\ 34°\ 38'\ 47''$. Its daily motion is — 10′ in R. A. and + 25′ in Decl. Its physical appearance is as follows: Slightly elongated, 4′ in diameter, 9th magnitude, with tolerably well-defined nucleus, and tail less than 30′.

(Signed) W. W. CAMPBELL.

LICK OBSERVATORY, MT. HAMILTON, CAL.,
Sept. 2, 1902.

To Harvard College Observatory: (Sent 10 A. M.)

Comet Perrine was observed by PERRINE on Sept. 1.9433 G. M. T.; in R. A. $3^h\ 17^m\ 3^s.0$; Decl. $+\ 35°\ 0'\ 34''$.

(Signed) W. W. CAMPBELL.

LICK OBSERVATORY, MT. HAMILTON, CAL.,

To Harvard College Observatory: Sept, 3, 1902.

To Students' Observatory, Berkeley, Cal.: (Sent 10 A. M.)

Comet Perrine was observed by PERRINE on Sept. 2.8889 G. M. T.; in R. A. $3^h\ 16^m\ 9^s.6$; Decl. $+\ 35°\ 23'\ 35''$.

(Signed) W. W. CAMPBELL.

LICK OBSERVATORY, MT. HAMILTON, CAL.,
Sept. 3, 1902.

To Harvard College Observatory: (Sent 9:00 P. M.)

Elements and ephemeris of Comet *b* were computed by PERRINE as follows:—

$$\left.\begin{aligned} T &= 1902, \text{ November } 24.47 \text{ G. M. T.} \\ \omega &= 153^\circ\ 26' \\ \Omega &= \ 49\ \ 56 \\ i &= 156\ \ 54 \end{aligned}\right\} 1902.0$$

Natural $q = 0.4020$

The brightness of the comet on Sept. 5 will be 1.5, on Sept. 18, 4.5.

(Signed) W. W. CAMPBELL.

[The ephemeris at 4-day intervals from Sept. 6 to Sept. 18 is here omitted.]